

# THANAWAT LODKAEW

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<https://skydddoogg.github.io/>

## EDUCATION

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### King Mongkut's Institute of Technology Ladkrabang (KMITL)

*Graduation year: 2020*

Studying towards a Bachelor's degree in Information Technology

Faculty of Information Technology

- Current GPAX: 3.77 (4.00 scale)
- Working on classification on imbalanced data (senior project).
- Having taken several AI-related courses, machine learning, computer vision and image processing.

## EXPERIENCE

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### Undergraduate Researcher

Since 2017

*Data Science and Machine Learning Research Laboratory (DSMLR), KMITL*

*Supervised by Prof. **Kitsuchart Pasupa***

- Having proposed a computer-vision-based approach for heat detection in cows.
- Having proposed an approach for retrieving similar visual objects by utilizing CNN features for similarity measurement and using object-segmented images instead of object-cropped images for better results.

### Research Intern

Summer 2019

*Vision and Learning Laboratory, Vidyasirimedhi Institute of Science and Technology (VISTEC)*

*Supervised by Prof. **Supasorn Suwajanakorn***

- Having proposed a deep-learning-based framework for removing furniture objects in a room image. The framework uses an image inpainting technique to perform the task.

### Exchange Student

Summer 2018

*National Institute of Technology, Kurume College*

*Supervised by Prof. **Yoshimitsu Kuroki***

- Having researched for an improvement of the Saak transform using convex optimization on sparse representation.

## EXTRACURRICULAR ACTIVITY

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### Deep Learning and Artificial Intelligence Winter School 2017

*Organized by The Asia Pacific Neural Network Society (APNNS)*

- Having gained knowledge about several aspects of deep learning and artificial intelligence such as deep CNN neocognitron for artificial vision, randomized algorithms, swarm search and deep learning for emotion.

### Workshop on Introduction to Social Computing

*Organized by Prof. Irwin King*

- Having gained knowledge about collecting, extracting, accessing, processing, computing and visualizing social signals and information.
- Having had a clear understanding of the fundamentals of recommendation system.

## PUBLICATIONS

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1. Kitsuchart Pasupa and **Thanawat Lodkaew**. A new approach to automatic heat detection of cattle in video. In *International Conference on Neural Information Processing*, pages 330–337. Springer, 2019
2. **Thanawat Lodkaew**, Weeruhputt Supsohmboon, Kitsuchart Pasupa, and Chu Kiong Loo. Fashion finder: A system for locating online stores on instagram from product images. In *2018 10th International Conference on Information Technology and Electrical Engineering (ICITEE)*, pages 500–505. IEEE, 2018

## AWARDS AND HONORS

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<b>Third Place</b> , IST - FR 2019: Gateway to Informatics Research at EECi, <i>Thailand</i>	2019
<b>Third Place</b> , National Software Contest on Artificial Intelligence Application, <i>Thailand</i>	2018
<b>Finalist</b> , International ICT Innovative Services Contest, <i>Taiwan</i>	2017
<b>Special Prize Award</b> , NAPROCK International Programming Contest, <i>Japan</i>	2017
<b>Finalist</b> , TechJam Competition on Data Science Squad, <i>Thailand</i>	2017
<b>Honorable Mention Award</b> , MUICT DataHack, <i>Thailand</i>	2017

## TECHNICAL STRENGTHS

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<b>Programming Language</b>	Python, Java, C, MATLAB, Node.js, HTML/CSS
<b>Technology</b>	Tensorflow, Keras, Linux, Flask, Google Cloud Platform, Git

## REFERENCES

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